

Notice of Allowability

Application No.

10/037,382

Examiner

Michael Misiaszek

Applicant(s)

CACI ET AL.

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-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address--

All claims being allowable, PROSECUTION ON THE MERITS IS (OR REMAINS) CLOSED in this application. If not included herewith (or previously mailed), a Notice of Allowance (PTOL-85) or other appropriate communication will be mailed in due course. **THIS NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIGHTS.** This application is subject to withdrawal from issue at the initiative of the Office or upon petition by the applicant. See 37 CFR 1.313 and MPEP 1308.

1. ☒ This communication is responsive to Examiner's Amendment 12/1/2006, Preliminary Amendment 11/2/2006.
2. ☒ The allowed claim(s) is/are 1-7, 16-18, 24 and 31.
3. ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
 - a) ☐ All b) ☐ Some* c) ☐ None of the:
 1. ☐ Certified copies of the priority documents have been received.
 2. ☐ Certified copies of the priority documents have been received in Application No. _____.
 3. ☐ Copies of the certified copies of the priority documents have been received in this national stage application from the International Bureau (PCT Rule 17.2(a)).

* Certified copies not received: _____.

Applicant has THREE MONTHS FROM THE "MAILING DATE" of this communication to file a reply complying with the requirements noted below. Failure to timely comply will result in ABANDONMENT of this application.

THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.

4. ☐ A SUBSTITUTE OATH OR DECLARATION must be submitted. Note the attached EXAMINER'S AMENDMENT or NOTICE OF INFORMAL PATENT APPLICATION (PTO-152) which gives reason(s) why the oath or declaration is deficient.
 5. ☐ CORRECTED DRAWINGS (as "replacement sheets") must be submitted.
 - (a) ☐ including changes required by the Notice of Draftsperson's Patent Drawing Review (PTO-948) attached
 - 1) ☐ hereto or 2) ☐ to Paper No./Mail Date _____.
 - (b) ☐ including changes required by the attached Examiner's Amendment / Comment or in the Office action of Paper No./Mail Date _____.
- Identifying indicia such as the application number (see 37 CFR 1.84(c)) should be written on the drawings in the front (not the back) of each sheet. Replacement sheet(s) should be labeled as such in the header according to 37 CFR 1.121(d).
6. ☐ DEPOSIT OF and/or INFORMATION about the deposit of BIOLOGICAL MATERIAL must be submitted. Note the attached Examiner's comment regarding REQUIREMENT FOR THE DEPOSIT OF BIOLOGICAL MATERIAL.

Attachment(s)

1. ☒ Notice of References Cited (PTO-892)
2. ☐ Notice of Draftsperson's Patent Drawing Review (PTO-948)
3. ☐ Information Disclosure Statements (PTO/SB/08), Paper No./Mail Date _____
4. ☐ Examiner's Comment Regarding Requirement for Deposit of Biological Material

5. ☐ Notice of Informal Patent Application

6. ☒ Interview Summary (PTO-413), Paper No./Mail Date 20061201.

7. ☒ Examiner's Amendment/Comment

8. ☒ Examiner's Statement of Reasons for Allowance

9. ☐ Other _____


JEFFREY A. SMITH
SUPERVISORY PATENT EXAMINER
TECHNOLOGY CENTER 3600

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12/11/06
J. Walden
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DETAILED ACTION

Continued Examination Under 37 CFR 1.114

A request for continued examination under 37 CFR 1.114, including the fee set forth in 37 CFR 1.17(e), was filed in this application after final rejection. Since this application is eligible for continued examination under 37 CFR 1.114, and the fee set forth in 37 CFR 1.17(e) has been timely paid, the finality of the previous Office action has been withdrawn pursuant to 37 CFR 1.114.

Applicant's submission filed on 9/11/2006 has been entered.

EXAMINER'S AMENDMENT

An examiner's amendment to the record appears below. Should the changes and/or additions be unacceptable to applicant, an amendment may be filed as provided by 37 CFR 1.312. To ensure consideration of such an amendment, it **MUST** be submitted no later than the payment of the issue fee.

Authorization for this examiner's amendment was given in a telephone interview with Kathleen Chapman on November 29, 2006.

The application has been amended as follows:

In the Claims

The claims have been amended as follows:

Claim 1: (Currently Amended) A handheld portable 2-way secure purchasing aid logistics appliance (PAL), comprising:

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an optical reader subsystem and optical scan assembly ~~capable of~~ configured to scanning high density bar codes into said PAL as scanned information, said optical reader subsystem and optical scan assembly ~~capable of~~ configured to extracting from said scanned information numerical codes related to a web page representation and ~~providing~~ provide said scanned information as input data;

encrypted random access memory (RAM) ~~capable of~~ configured to storing store said input data including encryption keys, financial data, and PAL owner name in said PAL, said encrypted RAM having secure and disabled modes; voice analog circuitry having a speaker and a microphone, and ~~capable of~~ configured to receiving receive voice samples as said input data;

a central processor coupled to said optical reader subsystem and optical scan assembly, said encrypted RAM, and said voice analog circuitry;

a secure trusted monitor program executable by said central processor and ~~capable of~~ configured to storing store said voice samples for biometric voice recognition;

a decoder executable by said central processor and ~~capable of~~ configured to decoding decode the numerical codes according to merchant-specific rules and ~~providing~~ provide the decoded numerical codes to a parser that creates web page software to build said web page representation;

a browser ~~capable of~~ configured to receiving receive said web page software and ~~creating~~ create a display from said web page software;

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a magnetic stripe reader coupled to said central processor and ~~capable of~~
~~configured to receiving~~ receive said financial data as said input data;

a smart card reader coupled to said central processor and ~~capable of~~
~~configured to receiving~~ receive said encryption keys as said input data;

a remote ear piece coupled to said central processor and ~~capable of~~
~~configured to providing~~ provide output data;

a front panel including keys, switches and indicators coupled to said
central processor and ~~capable of~~ configured to provide 2-way communication
and ~~receiving~~ receive said input data;

a micro video display controller having a micro video display coupled to
said central processor and ~~capable of~~ configured to providing provide said 2-way
communications and ~~receiving~~ receive said input data;

a ~~high-resolution~~ touch screen display having a touch screen interface
controller coupled to said central processor and ~~capable of~~ configured to
~~receiving~~ receive said input data;

a weight-measuring device coupled to said central processor and ~~capable~~
~~of~~ configured to receiving receive said input data; and

a radio link controller and radio subsystem ~~capable of~~ configured to
~~providing~~ provide ~~high-speed secure short-range~~ communication coupled to said
central processor and ~~capable of~~ configured to provide 2-way communication
and ~~receiving~~ receive said input data; and

a primary battery set and a backup battery set, said primary battery set
supplying power to said PAL until said primary battery set is depleted, said PAL

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automatically switching to said backup battery set when said primary batter set is depleted;

wherein said central processor processes said input data, creates shopping lists from said numerical codes, and provides said shopping lists and said web page representation on said touch screen display for manipulation by the user through said front panel and said micro video display;

wherein said radio link controller and radio subsystem provide said shopping lists to a merchant computer.

Claim 2: (currently amended) The portable 2-way secure purchasing aid logistics appliance according to claim 1 further comprising:

a plurality of antennas ~~capable of~~ configured to enabling enable non-interfering and secure communications between the PAL and said merchant computer for a plurality of simultaneous signals, said merchant computer ~~capable of~~ configured to enabling enable each of said plurality of antennas independently based on the location of said PAL with respect to said plurality of antennas,

wherein said radio link controller and radio subsystem are ~~capable of~~ configured to receiving receive signals based on the location of said radio link controller with respect to said plurality of antennas, from a radio transmitter coupled to said merchant computer through said plurality of antennas, wherein said merchant computer transmits product information in response to one of said plurality of signals by said PAL for said product information.

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Claim 3: (previously presented) The portable 2-way secure purchasing aid logistics appliance according to claim 1 further comprising:

an internet port connectable to a personal computer linked to a merchant web site, said merchant web site downloads product information to said internet port in response to one of said plurality of signals by said personal computer for said product information.

Claim 4: (previously presented) The portable 2-way secure purchasing aid logistics appliance according to claim 1 wherein said optical reader subsystem and optical scan assembly scans print media bar codes having product information and generates bar code signals to said central processor for further processing.

Claim 5: (previously presented) The portable 2-way secure purchasing aid logistics appliance according to claim 4 wherein said central processor compares said shopping list to said bar code signals to determine whether product is a new product to add to said shopping list or an existing product, whereby said central processor tracks a total cost of said products scanned, the said products remaining to be scanned, and available funds remaining in a budget.

Claim 6: (previously presented) The portable 2-way secure purchasing aid logistics appliance according to claim 4 wherein said central processor includes

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executable software to convert said bar code signals into said web page representation to be displayed on said display.

Claim 7: (currently amended) The portable 2-way secure purchasing aid logistics appliance according to claim 6 wherein said decoder comprises at least one decode table, said decoder ~~capable of~~ configured to interpreting, according to said at least one decode table, said bar code in one of a plurality of computer languages.

Claim 8: (cancelled)

Claim 9: (cancelled)

Claim 10: (cancelled)

Claim 11: (cancelled)

Claim 12: (cancelled)

Claim 13: (cancelled)

Claim 14: (cancelled)

Claim 15: (cancelled)

Claim 16: (previously presented) The portable 2-way secure purchasing aid logistics appliance according to claim 1 wherein said radio link controller and radio subsystem controls signal strength to communicate with a merchant sales register to minimize the possibility of transmission interception during a purchase transaction.

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Claim 17: (previously presented) The portable 2-way secure purchasing aid logistics appliance according to claim 1 wherein said central processor further includes executable software to compare smart card information and user personal identification number to data stored in a smart card and said central processor to prevent unauthorized use of said portable 2-way secure PAL, wherein said data stored on the smart card is read from said smart card reader integrated with said PAL.

Claim 18: (currently amended) A method for using a purchasing aid logistics appliance, comprising the steps of:

- downloading product data from a web site;
- creating a shopping list from the product data;
- monitoring beacon channels from a barker beacon at a threshold of a merchant facility;
- receiving into the purchasing aid logistics appliance a channel indication of a first wireless channel from the beacon channels;
- determining a location of the purchasing aid logistics appliance when the purchasing aid logistics appliance is in the threshold the merchant facility;
- causing the purchasing aid logistics appliance to wirelessly upload the shopping list to a merchant computer from the purchasing aid logistics appliance through the first wireless channel when the purchasing aid logistics appliance is

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in the threshold, the first wireless channel directly connecting the merchant computer with the purchasing aid logistics appliance;

receiving the product data, a full duplex channel, and personal data into the purchasing aid logistics appliance from the merchant computer through the first wireless channel while traversing the threshold into the merchant facility;

receiving a customer-specific merchant in-store identification and merchant-specific database identification into the purchasing aid logistics appliance from the merchant computer, the merchant-specific database identification being used in the purchasing aid logistics appliance to retrieve a merchant database pointer to be provided to the merchant computer to set customer treatment rules and retrieve merchant-specific product prices specific to the merchant facility;

continually exchanging performance and error information between the purchasing aid logistics appliance and the merchant computer to enable the purchasing aid logistics appliance to increase transmit power if necessary; releasing the first wireless channel when the purchasing aid logistics appliance is out of range of the barker beacon;

communicating with the merchant computer by means of the full duplex channel;

responding to a periodic communication from the merchant computer with the customer-specific merchant in-store identification;

processing voice input to summon customer assistance;

scanning a product bar code when a product is placed in a shopping cart;

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creating a shopping cart file when the product is scanned;

extracting, from the scanned bar code, numerical codes related to a web page representation;

decoding said numerical codes according to merchant-specific rules and providing the decoded numerical codes to a parser that creates web page software to build a web page representation;

supplying the product bar code and the merchant database pointer to the merchant computer;

receiving the merchant-specific product prices from the merchant computer;

tracking an amount of time is spent at a particular shopping location within the merchant facility;

informing a user when a cost computed from the merchant-specific product prices as applied to the product selected by the user reaches a predetermined budget limit;

wirelessly transmitting the shopping cart file to the merchant computer to checkout through a special-purpose ~~short-range~~ link; and

automatically uploading rebate information to the merchant computer.

Claim 19: (cancelled)

Claim 20: (cancelled)

Claim 21: (cancelled)

Claim 22: (cancelled)

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Claim 23: (cancelled)

Claim 24: (previously presented) The method as defined in claim 18 further comprising the steps of:

recording financial transaction logs in parallel with banks and other financial organizations.

Claim 25: (cancelled)

Claim 26: (cancelled)

Claim 27: (cancelled)

Claim 28: (cancelled)

Claim 29: (cancelled)

Claim 30: (cancelled)

Claim 31: (previously presented) The portable 2-way secure purchasing aid logistics appliance according to claim 1 wherein said encrypted RAM comprises:

an address decoder;

means for misaligning an address of a memory, location by a random number incorporated into said address decoder to encrypt the address; and

means for accessing said memory location by said address decoder by using said random number when a secure address range is accessed when said encrypted RAM is in said secure mode.

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Claim 32: (cancelled)

Claim 33: (cancelled)

Claim 34: (cancelled)

Claim 35: (cancelled)

Claim 36: (cancelled)

Claim 37: (cancelled)

Claim 38: (cancelled)

Claim 39: (cancelled)

Claim 40: (cancelled)

Reasons For Allowance

The following is an examiner's statement of reasons for allowance:

The present invention is directed to a handheld portable 2-way secure purchasing aid logistics appliance (PAL) and a method for its use in creating product shopping lists and monitoring a user's shopping location. Independent claim 1 teaches a novel combination of device components, including a decoder and a central processor coupled to an optical reader subsystem and optical scan assembly, encrypted RAM, and voice analog circuitry, wherein the decoder is executable by the central processor and is configured to decode numerical codes related to a web page representation from the optical reader subsystem according to merchant-specific rules and provide the decoded numerical codes to a parser that creates web page software to build a web page representation. The central processor further processes input data, creates shopping lists from the numerical codes, and provides the shopping lists and web page representation on a touch screen display. Independent claim 18 also teaches the novel feature of extracting, from the scanned bar code, numerical codes related to a web page representation and decoding said numerical codes according to merchant-specific rules and providing the decoded numerical codes to a parser that creates web page software to build a web page representation.

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Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

The following reference has been identified as the most relevant prior art to the claimed invention(s). The prior art mostly relates to using a portable electronic device to create product shopping lists.

Petrovich et al. (U.S. Patent 6,101,483) teaches a personal shopping system portable terminal. The portable terminal includes a memory, a bar code reader, a wireless transceiver, and a data interface. Petrovich et al. utilizes the portable terminal to scan bar codes associated with items to be purchased, creates shopping lists based on information associated with the scanned bar codes, which is provided to the portable terminal through the data interface. These shopping lists are stored in the terminal's memory and used to place product orders at a shopping establishment. Petrovich does not anticipate nor fairly and reasonably teach a portable device including a decoder configured to decode numerical codes related to a web page representation from an optical reader subsystem according to merchant-specific rules and provide the decoded numerical codes to a parser that creates web page software to build a web page representation.

Conclusion

The prior art made of record and not relied upon is considered pertinent to applicant's disclosure.

U.S. Patent No. 6,101,483, August 8, 2000, discloses a personal shopping system portable terminal.

U.S. Patent Application Publication US 2002/022994 A1, February 21, 2002, Miller et al., discloses a method and system for generating a web page based on bar code information.

U.S. Patent No. 6,314,406, November 6, 2001, O'Hagan et al., discloses a retail customer information system including a data processing device that is used for product bar code scanning and creating shopping lists.

"Qode Selected Best of Show At Fall Internet World Conference-Commerce-Enabling Company Wins "Best of Show" in Internet Client Device with its Bar-code enabler for E-commerce." *Business Wire*, Friday, October 27, 2000, discloses a portable device with a bar code scanner used to obtain purchasing information regarding desired products.

International Application Publication WO 01/20526 A1, Date of Publication 22.03.2001, Molbak et al., discloses a personal digital assistant used by a

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customer to create shopping lists of desired products and obtain relevant product information.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Michael Misiaszek whose telephone number is (571) 272-6961. The examiner can normally be reached on 8:00 AM - 4:30 PM, Monday through Friday.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Jeffrey A. Smith can be reached on (571) 272-6763. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

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12/1/2006


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